**Summary**

1. Downloaded three data files and loaded them into the SQL database
2. Spent some time exploring the data. There are many differences in the schema of these datasets, and I identifies some key columns with the same type of information ( FacilityName, etc… )
3. Food Inspection results are classified differently across the three datasets and I had to make some assumptions about what qualifies as “inspections pass” (such as ‘A’, ‘B’, ‘C’ grade… )
4. Designed a unifying data model with the key information about inspections (see below)
5. Loaded the three datasets into the Datamart
6. Built cube using Analysis Services (see below)
7. Built o dew simple reports using the cube (see the spreadsheet)

Reports suggest that FacilityType ( such as Bakery, … ) correlates with inspection results.

Location (Zipcode) seems to correlate as well

Next steps would be to do some statistical modeling / analysis depending on the business objectives.

This can be prediction of future inspection results, identifying major issues/concerns/complaints that are common in restaurant industry

Investigate regional difference (particularity with bigger chains present in different cities)

…

Please check the attached spreadsheet with some reports.

You should be able to modify reports using filter or adding / removing dimensions and measures.

The data are in the attached data file.



